

## **GOLF PUTTING TEACHING DEVICE**

### **FIELD OF THE INVENTION**

The present invention relates to a golf putting device that includes a plurality of first sensors on two side walls along a path and second sensors located at  
5 the end of the path so as to display the direction and speed.

### **BACKGROUND OF THE INVENTION**

A conventional golf teaching device is shown in Fig. 1 and generally includes a base 1 on which a swinging device 2 is connected which includes a bar with a ball fixed to a distal end thereof so that a player drives the ball by swinging a  
10 golf club. A display device 3 is located beside the swinging device 2 so as to display the speed and/or distance of the ball flies. A direction indicator 4 is electrically connected to the swinging device 2 and includes several detection members 5 so as to detect the direction and the ballistic of the ball. The direction and the ballistic are shown by the indicators 6 on the direction indicator 4. Nevertheless, this is not used  
15 for putting which requires more precise and skill to control the direction and distance of the ball.

The present invention intends to provide a putting teaching device that has first sensors on two side walls along the path and second sensors on a top board at the end of the path so as to have complete information of the movement of the ball  
20 and to display these data to the players.

### **SUMMARY OF THE INVENTION**

The present invention relates to a golf putting teaching device which comprises a path and two side walls are located on two sides of the path and each

side walls has a plurality of first sensors on an inside thereof. An end piece has a top board and two side portions and the end piece mounted across two sides of the path. A plurality of second sensors are located on an underside of the top board and the first sensors in the side walls are electronically connected to the second sensors of  
5 the top board.

The primary object of the present invention is to provide a putting teaching device that senses the direction and speed of the ball so as to provide the result of the putting to the players.

The present invention will become more obvious from the following  
10 description when taken in connection with the accompanying drawings which show, for purposes of illustration only, a preferred embodiment in accordance with the present invention.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

Fig. 1 is a perspective view to show a conventional golf swinging device;

15 Fig. 2 is a perspective view to show the golf putting teaching device of the present invention;

Fig. 3 is an exploded view to show the two side walls, the piece and the end piece of the golf putting teaching device of the present invention;

Fig. 4 is an exploded view to show the sections of each of the two side  
20 walls of the present invention;

Fig. 5 is a top view to show the sections of each of the two side walls of the present invention;

Fig. 6 shows the programmable steps of the controlling device of the present invention, and

Fig. 7 shows another embodiment of the side walls of the golf putting teaching device of the present invention.

## 5      **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

Referring to Figs. 2 to 5, the golf putting teaching device of the present invention comprises a path 10 which has a start end and a target end which can be made to have proper slope just like a green. Two side walls 20 are located on two sides of the path 10 and each side walls 20 is composed of a plurality of sections 21.

10    Each section 21 has at least one first sensor 24 connected thereto which has wires 28 extending to two ends of each section 21. The first sensors 24 are located at an inside of each section 21 so as to detect the ball on the path 10. Each section 21 has a male connector 23 on one end and a recess 22 defined in the other end. Each recess 22 includes a terminal piece 25 for being engaged with the male connector 23 such that

15    the sections 21 are connected with each other to form a straight side wall by inserting the male connector 23 into the recess 22 of the next section 21.

An end piece 30 has a top board 34 and two side portions 35, 36. The end piece 30 is mounted across two sides of the path 10 and a plurality of second sensors 31 are located on an underside of the top board 34. The two side portions 35, 36 each

20    have a recess 32 with a terminal piece 320 therein so as to be connected to the male connector 23 of the sections 21 on an end of each of the two side walls 20. The first sensors 24 in the side walls 20 are electronically connected to the second sensors 31 of the top board 34. The second sensors 31 on the top board 34 cover a target area of

the path 10 and an index 33 is connected to a front surface of the top board 34 such that the player may aim the index 33 to putt the ball (not shown).

A controlling device 40 is connected to one of the tow side portions 35, 36 and electronically connected to the first and the second sensors 24, 31. The  
5 controlling device 40 has a micro-processor and programmable control programs therein. Accordingly, data that the first and the second sensors 24, 31 are collected and calculate in the controlling device 40 and displayed on a display device which is not shown. By this way, the player know how the putt is played.

As shown in Fig. 6, the controlling device 40 may proceed the following  
10 steps:

step 1: start;

step 2: setting the path condition and the condition of the golf ball;

step 3: putting a golf ball on the path;

step 4: checking the position of the ball, if yes, go to step 5, if no, go to

15 step 3;

step 5: proceeding putting;

step 6: the first and the second sensors 24, 31 detecting the ball and sending the data to the controlling device 40;

step 7: the controlling device 40 processing the data;

20 step 8: displaying the result of the data;

step 9: checking whether the golf ball enters the hole, if yes, go the step 10, if no, go to step 12;

step 10: setting the condition of the golf ball or continuing to putt;

step 11: changing the site on the display device;

step 12: displaying the current position of the golf ball, the distance and the direction to the hole;

step 13: changing site on the display device and re-setting the condition of the golf ball, and then go to step 3.

Fig. 7 shows that the side walls can also be made by several protrusions 27 along the two sides of the path 10 and each protrusion 27 has a first sensor 26 on an inside thereof.

While we have shown and described the embodiment in accordance with the present invention, it should be clear to those skilled in the art that further embodiments may be made without departing from the scope of the present invention.